

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Conoco
3. ADDRESS OF OPERATOR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: *660' FSL & 660' FWL*
AT TOP PROD. INTERVAL: ☒
AT TOTAL DEPTH: ☒
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☒
SHOOT OR ACIDIZE ☒
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE
LC 031741 (a)
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
NMFU
8. FARM OR LEASE NAME
Hawk A
9. WELL NO.
4
10. FIELD OR WILDCAT NAME
Blinberry / Drinkard
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4, T-21S, R-37E
12. COUNTY OR PARISH
Lea
13. STATE
N.M.
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

OIL & GAS
U.S. GEOLOGICAL SURVEY
DOWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We propose to open an additional pay zone and stimulate the subject well. See attachments for procedures and BOP specs.

No additional surface disturbance required.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *W. A. Butterfield* TITLE *Admin. Supervisor* DATE *9-7-82*

(This space for Federal or State office use)

APPROVED BY (Or: S. L.) PETER W. CHESTER TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

SEP 9 1982

FOR

JAMES A. GILHAM

DISTRICT SUPERVISOR

*See Instructions on Reverse Side

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SEP 13 1982

G.C.D.
HOBBS OFFICE

Hawk A No. 4

Open Additional Pay & Stimulate

Well Data

TD: 6778' PBSD: 6698' ELEVATION: 3497' DF ZERO: 10' AGL

LOCATION: 660' FSL & 660' FWL Of Section 4, T-21S, R-37E, Lea County, NM

CASING: 8-5/8", 24#, J-55 Surface String @ 1265' w/600 sx
5-1/2", 14# & 15.5#, J-55 Production String @ 6778' w/700 sx

PERFORATIONS: 6590'-6680' - Drinkard (94 Perfs)
6383'-6485' - Tubb - Squeezed
5824'-6172' - Blinbry (168 Perfs)

MISC: 5-1/2" Casing Squeezed @ +2300' (4 Perfs) w/490 sx

Recommended Procedure

1. Rig up & if necessary, kill well w/2% KCL TFW w/1 gallon per 1000 gallons.
2. POOH w/rods & pump.
 - A. Install BOP.
 - B. POOH w/2-3/8" tubing & tally.
3. GIH w/4-3/4" bit, 5-1/2" casing scraper, & 2-3/8" tubing.
 - A. Run bit to +6300'.
 - B. POOH w/2-3/8" tubing, 5-1/2" scraper, & 4-3/4" bit.
4. Rig up wireline services.
 - A. GIH w/5-1/2" CIBP, setting tool, & wireline.
 - B. Set CIBP @ +6300'.
 - C. POOH w/wireline & setting tool.
 - D. GIH w/dump bailer & wireline.
 - E. Dump 2 sx class "C" cement (slurry weight: 14.80 lbs/gal & slurry volume: 1.32 cu ft/sx) on top of CIBP.
 - F. POOH w/wireline & dump bailer.
5. GIH w/5-1/2" retrievable bridge plug, setting-releasing tool, 5-1/2" packer, S.N., & 2-3/8" tubing.
 - A. Set retrievable bridge plug @ +6250'.
 - B. Set packer @ +5700'.
 - C. Load backside w/2% KCL TFW w/1 gallon Adomall per 1000 gallons. (Do not pressure up on backside).
6. Acidize Lower Blinbry (5824'-6172') through 2-3/8" tubing @ 4 BPM w/a maximum surface treating pressure of 3000 psi as follows:

NOTE: Monitor backside during treatment.

- A. Pump 2100 gallons (50 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115°F).

Hawk A No. 4
Open Additional Pay & Stimulate

6. B. Divert w/450 lbs Diverting Agent (50% graded rock salt & 50% Benzoic Acid Flakes) mixed w/300 gallons 10 ppg brine water w/15 lbs Guar Gum (2 hour breaker).
C. Pump 2100 gallons (50 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115° F).
D. Flush w/35 bbls 2% KCL TFW w/1 gallon Adomall per 1000 gallons.
E. Shut in for 1 hour.
F. Swab back load (+135 bbls).
 7. Release packer @ +5700'.
A. Release retrievable bridge plug @ +6250'.
B. Set retrievable bridge plug @ +5800'.
C. Pressure test retrievable bridge plug w/2000 psi via packer.
D. Spot 5' sand on top of retrievable bridge plug.
E. Spot 126 gallons (3 bbls) 15% HCL-NE-FE (inhibit acid for 48 hours @ 115° F) from +5784' to +5658'.
F. POOH w/2-3/8" tubing, S.N., packer, & setting-releasing tool.
 8. GIH w/4" select-fire decentralized perforating gun (0° phase, 1 JSPF, 0.40" EHD), collar locator, & wireline.
 9. Perforate Upper Blinebry @ 5691', 5703', 5712', 5721', 5730', 5736', 5743', & 5751'. (Total: 3 perfs).
- NOTE: Interval is to be perforated from top to bottom.
- Collars located @ 5642', 5674+', 5702-', 5734-', & 5765+'.
10. POOH w/wireline, collar locator, & 4" perf gun.
 11. Pick up & GIH w/setting-releasing tool, 5-1/2" packer, S.N., & 2-7/8" workstring.
A. Hydro-test workstring w/5000 psi above slips.
B. Set packer @ +5550'.
C. Load backside w/2% KCL TFW w/1 gallon Adomall per 1000 gals (do not pressure up on backside).
 12. Breakdown Upper Blinebry (5691'-5751') through 2-7/8" workstring @ 8 BPM as follows:

Maximum surface treating pressure: See Pressure/Rate Chart (I)
- NOTE: Monitor backside during breakdown.
- A. Pump 1344 gallons (16 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115° F).
 1. Release 1 ballsealers after every 2 bbls acid pumped. (Total: 16 ballsealers).
 2. Attempt to achieve ballout.
 - B. Pump 40 bbls 2% KCL TFW w/1 gallon Adomall per 1000 gals.
 - C. Shut in for 1 hour.

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Hawk A No. 4
Open Additional Pay & Stimulate

13. Release packer @ +5550'.
 A. Run packer through perforations.
 B. Set packer @ +5550'.
 C. Load backside w/2% KCL TFW w/1 gallon Adomall per 1000 gals. (Do not pressure up on backside.)
14. Sand fracture Upper Blinebry (5691'-5751') through 2-7/8" workstring in one stages as follows:

Optimum rate: 16 BPM

Estimated surface treating pressure: 4200 psi

Maximum surface treating pressures: See Pressure/Rate Chart (II)

NOTE: Monitor backside during frac.

- A. Pump 3612 gallons (86 bbls) 40# gelled TFW pad.
 B. Pump 1302 gallons (31 bbls) 40# gelled TFW w/1 ppg 20/40 sand.
 C. Pump 1302 gallons (31 bbls) 40# gelled TFW w/1.5 ppg 20/40 sand.
 D. Pump 1974 gallons (47 bbls) 40# gelled TFW w/2 ppg 20/40 sand.
 E. Pump 2604 gallons (62 bbls) 40# gelled TFW w/2.5 ppg 20/40 sand.
 F. Pump 3906 gallons (93 bbls) 40# gelled TFW w/3 ppg 20/40 sand.
 G. Pump 1974 gallons (47 bbls) 40# gelled TFW w/3 ppg 10/20 sand.
 H. Flush to end of tubing w/32 bbls 40# gelled TFW.
 I. Record ISIP & pressures every 5 minutes for 15 minutes.
 J. SION.

Volumes of Sand Frac

40# gelled TFW	18,018 gallons (429 bbls)
20/40 sand	25,431 lbs
10/20 sand	5,944 lbs

Composition of Frac Fluid per 1000 Gallons
 (Dresser Titan)

Gelled TFW	2% KCL
	40 lbs LFW-42 (Gelling Agent)
	25 lbs Adomite Aqua (FLA)
	1 gal TFS-1000 (Surfactant)
	1 gal N-11 (Non-Emulsifier)
	1 lbs W.G. Breaker F

15. Swab back load. (+485).
16. Release packer @ +5550'.
 A. Release retrievable bridge plug @ +5800'.
 B. POOH & lay down 2-7/8" workstring, S.N., 5-1/2" packer, setting-releasing tool, & 5-1/2" retrievable bridge plug.

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Hawk A No. 4
Open Additional Pay & Stimulate

17. GIH w/open-ended mud anchor, S.N., & 2-3/8" tubing.
 A. Hydro-test tubing w/5000 psi above slips.
 B. Land S.N. @ +6190'.
 C. GIH w/strainer, pump, & rods.
 D. Hang well on & place well on production.

James L. Sprague
 PRODUCTION ENGINEER

9-1-82
 DATE

J.B. Reckert
 SUPERVISING PRODUCTION ENGINEER

9-2
 DATE

 DIVISION ENGINEER

 DATE

 DRILLING SUPERINTENDENT

 DATE

JWM:vrn

CC: WELL FILE, DLW, HDM (4), FEP, LBD, CRP, JLS

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